DynaMag™-96 Side Skirted
DynaMag™-96 Side
DynaMag™-96 Bottom

Catalog nos. 12027, 12331D, 12332D

Store at ambient temperature

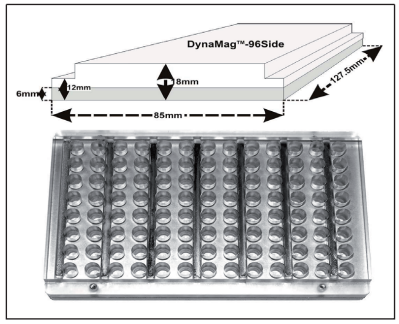
Rev. Date: May 2012 (Rev. 002)

Product Description

DynaMag™ magnets are designed to provide optimal magnetic separation of Dynabeads® from diverse liquid sample matrices. Dynabeads® can be used to isolate cells, proteins, nucleic acids, or other biomolecules.

Mix Dynabeads® with your sample in a well of a plate. The Dynabeads® bind to the target biomolecules within a few minutes. When a magnetic field is applied to the 96-well plate, the Dynabeads® are attracted to the tube wall, gently and rapidly taking bead-bound biomolecules with them. With the Dynabeads® pulled to the tube wells, it is easy to remove the supernatant. Liquid can be added and removed either manually or by an automated liquid handling robot. When the magnetic field is removed, the Dynabeads® can be resuspended in the liquid. In the absence of a magnetic field, the superparamagnetic Dynabeads® exhibit no residual magnetism. This superparamagnetic characteristic enables the beads to float freely and individually in the sample volume and subsequently to be collected at the tube wall via magnetic field for sample separation or buffer exchange.

With strong magnets and great functionalities, the DynaMag™ magnets outperform all other magnetic separators, providing a faster, more efficient magnetic separation.
See www.lifetechnologies.com/magnets for the full magnet range.



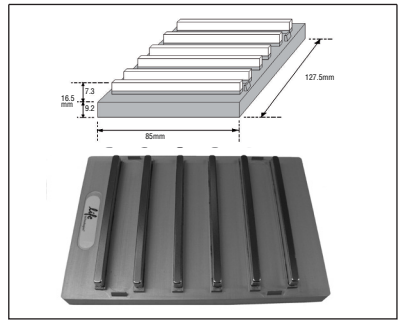
DynaMag™-96 Side

Cat. no. 12331D

- Concentrates the beads at the side of each well.
- Working volume: 5–200 µL.

Holds:

- PCR Strips
- 96-well PCR-plates*
  - Half-Skirted (200 µL)
  - Non-Skirted
- This plate magnet features 7 bar magnets with a hard plastic top which ensures a stable fit for 96-well PCR-plates. This magnet collects the Dynabeads® at the side of the wells. With the beads concentrated at the side of the wells, all residual fluid can be removed without disturbing the bead pellet. The DynaMag™-96 Side magnet has an extra column (13 in total). This design feature enables sample mixing simply by shifting the 96-well plate back and forth from the right-most position to the left-most position. Each shift in position causes the Dynabeads® to be pulled to the opposite tube wall. Continuous reciprocal shifting results in a continuous mixing.
  The benefits of this type of mixing are:
  - No physical interaction with the liquid volume during the mixing procedure
  - Reduced chance for contamination
  - Reduced sample degradation
  - Reduced risk for volume loss
- When used in combination with DynaMag™-96 Bottom on an automation platform, these magnets allow for significant volume change within a workflow:
  - **High wash volumes** (DynaMag™-96 Side or DynaMag™-96 Side Skirted)
  - **Low elution volumes** (DynaMag™-96 Bottom)



DynaMag™-96 Side Skirted

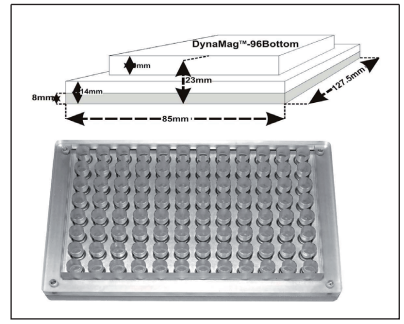
Cat. no. 12027

- Concentrates the beads at the side of each well.
- Working volume 5–200 µL.

Holds:

- 96-well skirted PCR-plates*
- Can be used to work with culture plates
  - 96-well round bottom plates
  - 96-well flat bottom plates
  - 24-well plates
  - 12-well plates
  - 6-well plates
  - Not recommended for use with 48-well plates
- This plate magnet features 6 bar magnets which collects the Dynabeads® at the side of the well. With the beads concentrated at the side of the well, all residual fluid can be removed without disturbing the bead pellet. This magnet can be used for mixing the same way as described for DynaMag™-96 Side. When used in combination with DynaMag™-96 Bottom on an automated platform, these allow for significant volume changes within a workflow:
  - **High wash volumes** (DynaMag™-96 Side or DynaMag™-96 Side Skirted)
  - **Low elution volumes** (DynaMag™-96 Bottom)

*Because plates may vary, users should test their plates for compability.



DynaMag™-96 Bottom

Cat. no. 12332D

- Concentrates the beads at the bottom of each well.
- Working volume 5–200 µL.

Holds:

- PCR strips
- 96-well PCR style plates*
  - Half-Skirted (200 µL)
  - Non-Skirted
- This plate magnet features 96 round magnets (with one centered at the bottom of each well) to ensure identical sample handling at each position. This magnet pulls the Dynabeads® to the bottom of each well, allowing for elution in very small volumes. When used in combination with DynaMag™-96 Side or DynaMag™-96 Side Skirted on an automated platform, these magnets allow for significant volume changes within a workflow:
  - **High wash volumes** (DynaMag™-96 Side or DynaMag™-96 Side Skirted)
  - **Low (5 µL) elution volumes** (DynaMag™-96 Bottom)

Precautions

These magnets contain very strong permanent magnets. People wearing a pacemaker or any other medical magnetized implant should not use this product unless advised by a health professional; the implant could be affected or damaged by exposure to a strong magnetic field. Keep tools and objects that could be damaged by the magnetic field out of the working area. This includes, but is not restricted to, credit cards and other products containing magnetic recording devices. Keep away from delicate instruments, watches, electronic equipment, displays and monitors. The magnet may attract steel or other magnetic material with high mechanical forces. Take care during handling. Avoid contact between two magnets. Do not pull the magnets apart if contact has been made; twist off to prevent damage to the unit or fingers.

The Health and Safety Officer should take all necessary steps and full responsibility to ensure that the precautions and statements are followed and adhered to.

Cleaning and Disinfection

The following materials are recommended for cleaning purposes. Spray and/or wipe the DynaMag™ units either with 70% isopropyl alcohol, 1% sodium hypochlorite solution (bleach), or 0.1N HCl solution. Do not submerge in aqueous solutions and avoid prolonged exposure to water or aqueous solutions. Clean with a damp cloth and mild detergent when exposed to harsh solvents.

Note: Do not autoclave the DynaMag™ magnets.

Storage and Stability

The magnets contains high-energy Neodymium permanent magnets. Magnetic strength will not diminish significantly during the lifetime of the product. Do not use the magnets above 50°C (122°F) and store in a cool, dry environment. Avoid prolonged exposure of the magnets to direct sunlight or artificial UV light as the surface material may become brittle.

Limited Use Label License

The purchase of this product conveys to the purchaser the limited, nontransferable right to use the purchased amount of the product only to perform internal research for the sole benefit of the purchaser. No right to resell this product or any of its components is conveyed expressly, by implication, or by estoppel. This product is for internal research purposes only and is not for use in commercial applications of any kind, including, without limitation, quality control and commercial services such as reporting the results of purchaser's activities for a fee or other form of consideration. For information on obtaining additional rights, please contact outlicensing@lifetech.com or Out Licensing, Life Technologies, 5791 Van Allen Way, Carlsbad, California 92008.

Manufactured by Life Technologies AS, Norway. Life Technologies AS complies with the Quality System Standards ISO 9001:2008 and ISO 13485:2003.

Limited Product Warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.lifetechnologies.com/termsandconditions. If you have any questions, please contact Life Technologies at www.lifetechnologies.com/support.

SPEC-07500

For support visit www.lifetechnologies.com/support or email techsupport@lifetech.com

www.lifetechnologies.com

life technologies™